

Applicant: David W. Edmunds, Robert Minns, and
James W. Sinclair
Title: A CALCULATION ENGINE FOR USE IN OLAP
ENVIRONMENTS
Attorney/Agent: Kent J. Sieffert
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Docket No.: 1028-004US01 **Sheet 1 of 5**

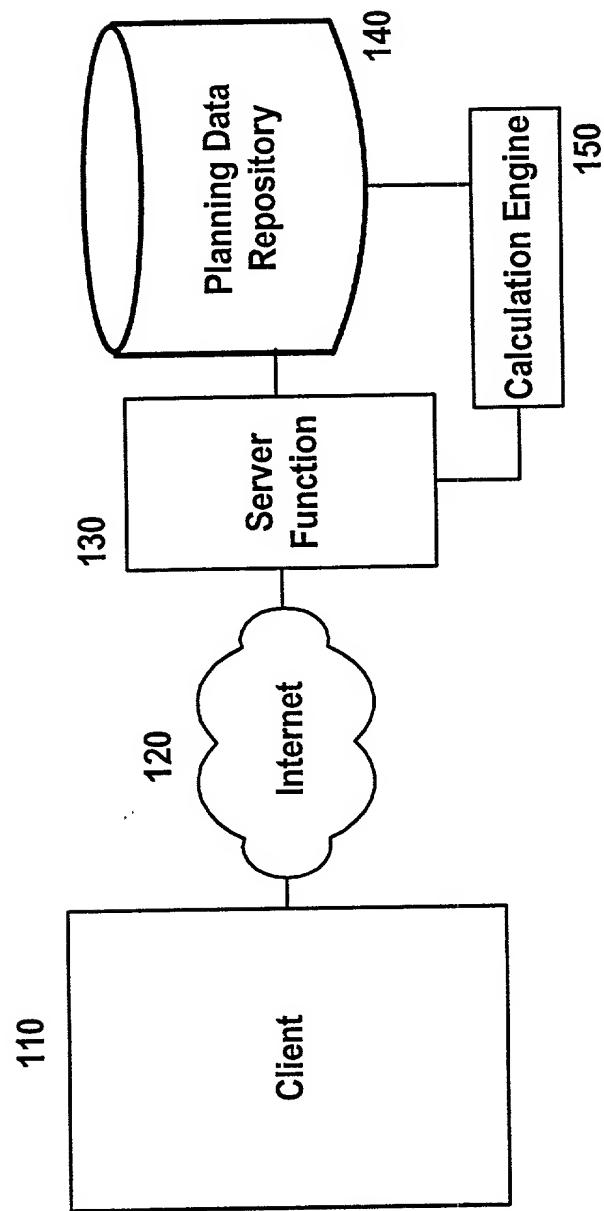


FIG. 1

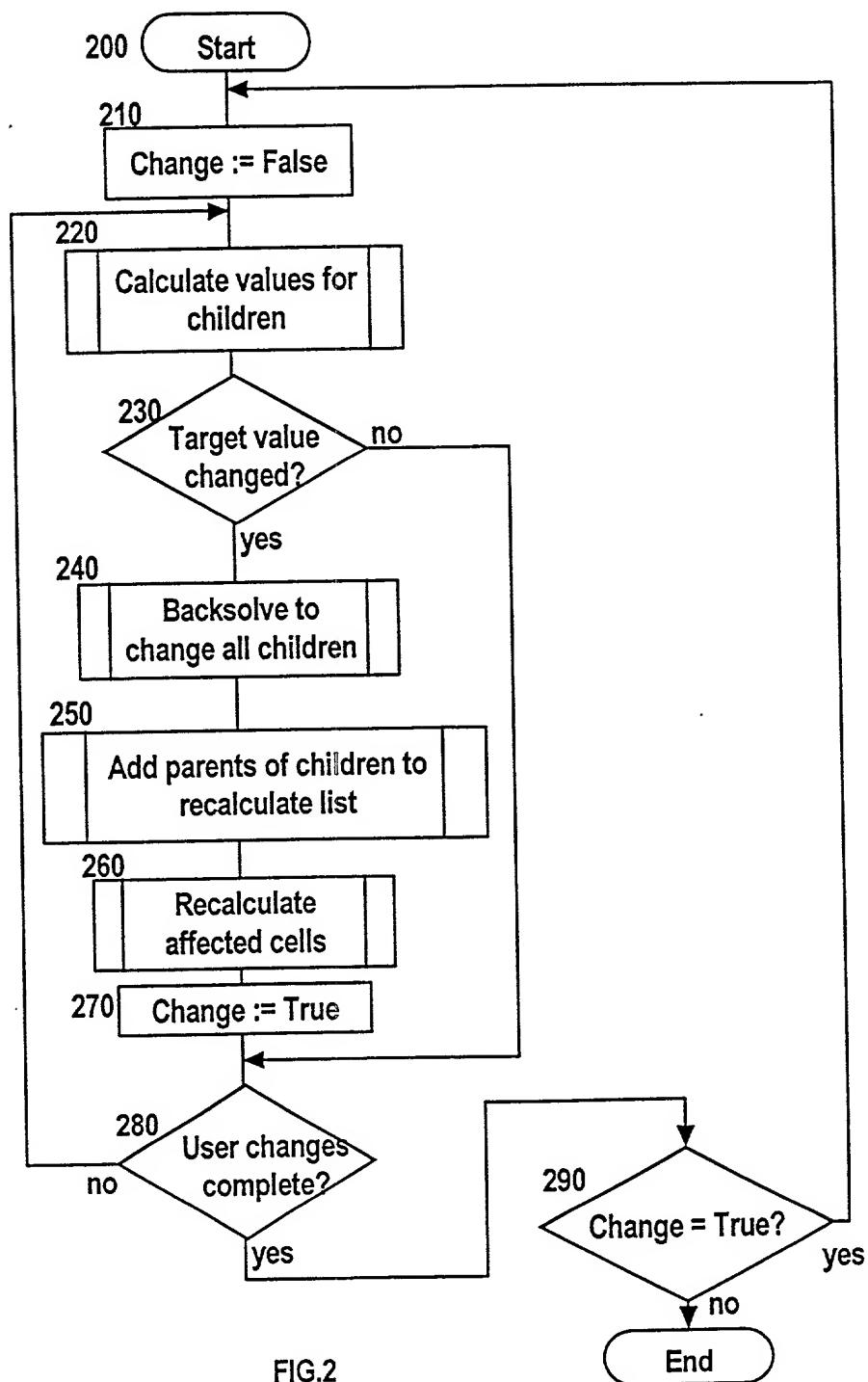


FIG.2

	Q1	Q2	Q3	Q4	Annual
310 Quantity	Locked	Back-solved Value	Back-solved Value	Back-solved Value	Calculated Value R2 324
311 Price	Locked	Locked	Locked	Back-solved Value	Calculated Value R4 334
312 Sales (= Price * Quantity)	Calculated Value R3 340	Calculated Value R3 341	Calculated Value R3 342	Calculated Value R3 343	User estimate R1 344

R1: Annual Sales=Q1 sales + Q2 Sales + Q3 Sales + Q4 Sales
 R2: Annual Quantity sold= Q1 Quantity + Q2 Quantity + Q3 Quantity + Q4 Quantity
 R3: Quarterly Sales = Quarterly Quantity * Quarterly Price
 R4: Assumed Price = Annual Sales/Annual Quantity.

FIG. 3

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	400	401
	Parent	Children
410	Annual forecast - Sales	Annual - Quantity, Annual - Price.
411	Annual forecast - Quantity	Q1 - Quantity, Q2 - Quantity, Q3 - Quantity, Q4 - Quantity.
412	Annual forecast - Revenue	Q1 - Sales, Q2 - Sales, Q3 - Sales, Q4 - Sales.
413	Q1 - Sales	Q1 - Quantity, Q1 - Price.
414	Q2 - Sales	Q2 - Quantity, Q2 - Price.
415	Q3 - Sales	Q3 - Quantity, Q3 - Price.
416	Q4 - Sales	Q4 - Quantity, Q4 - Price.

FIG 4

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		500	502	504	506	508
		Q1	Q2	Q3	Q4	Year
510	Canada	2.0	2.0	2.0	2.0	8.0
		511	512	513	514	515
520	US	2.0	2.0	2.0	2.0	8.0
		521	522	523	524	525
530	North America	4.0	4.0	4.0	4.0	16.0
		531	532	533	534	535

FIG. 5